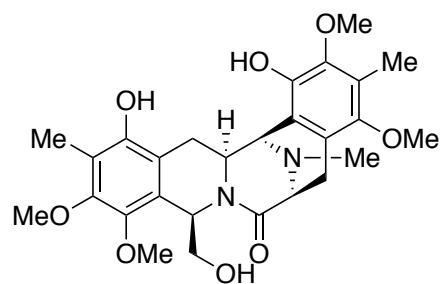


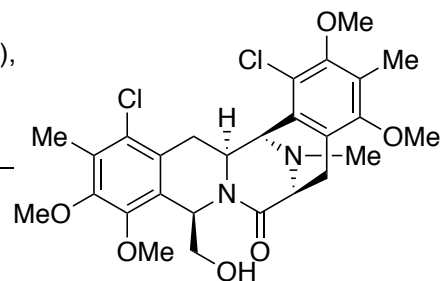
8) H₂ (60 bar), [Ir(cod)Cl]₂, L*
TBAI, 60 °C, 18 h → 80 °C, 24 h

83% yield
>20:1 d.r.
>99% (after recryst.)



11) Pd G3 Dimer (50 mol%),
AdBippyPhos (200 mol%),
CsOH·H₂O, dioxane,
90 °C, 3 h

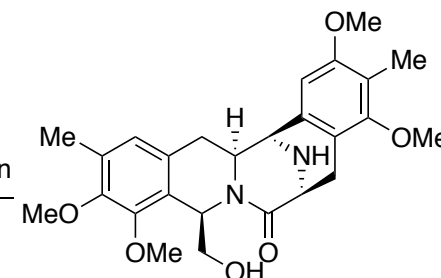
46% yield



9) aq. CH₂O,
NaBH(OAc)₃,
DCE, 23 °C, 15 min

10) NCSac, HFIP,
0 °C, 1 min

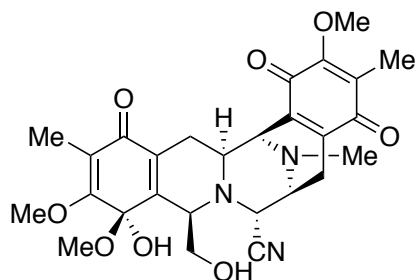
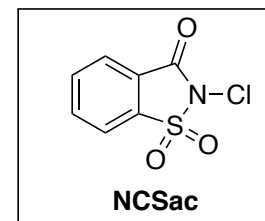
66% yield, 2 steps



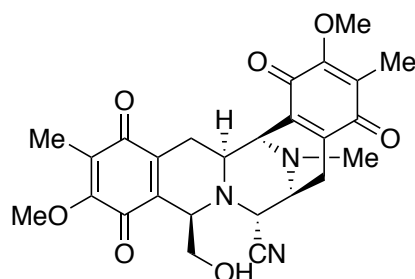
12) Li(EtO)₂AlH₂, THF, 0 °C, 45 min
then AcOH, KCN

50% yield

13) DDQ, acetone, H₂O, 23 °C, 1 h



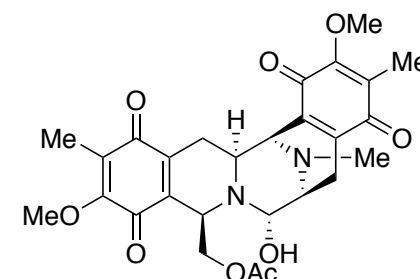
33% yield



32% yield

Jorunnamycin A

14) Ac₂O, DMAP, MeCN
then aq. AgNO₃, 45 °C, 30 min



68% yield

(-)-Jorumycin

